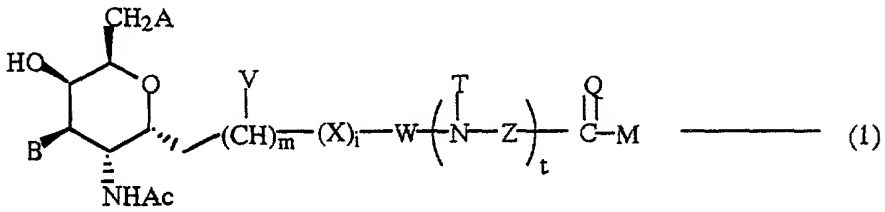
WHAT IS CLAIMED IS :

1. A compound of the general formula (1),

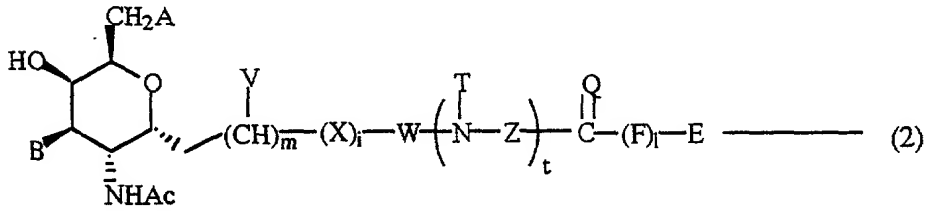


(1)

wherein A represents OH or sialic acid and/or it's derivatives, and B represents OH or galactose and/or it's derivatives; T represents H or protecting groups of amine; M represents H or OH; X represents oxygen atom, -NH- or S(O)z (where z is 0,1 or 2); Q is H or oxygen atom; V represents lower alkyl or H; W is straight or branched alkylene groups from 0 to 5 ; Z is straight or branched alkylene groups from 1 to 5; i, m, and t is 0 or 1;

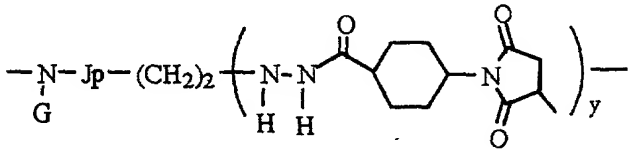
non-mucin type synthetic compounds or it's carrier conjugated compounds, which have above mentioned compounds as a core structure of antigen.

2. A compound of the general formula (2),



(2)

wherein A, B, T, X, Q, V, W, Z, i, m,and t have above-mentioned meanings; E represents pharmaceutically acceptable carrier compounds; l is 0 or 1; F is showed followings,



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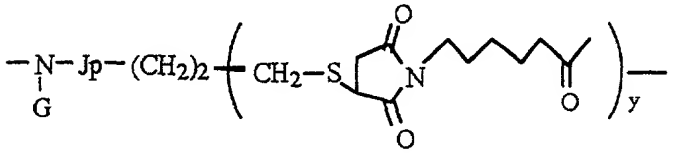

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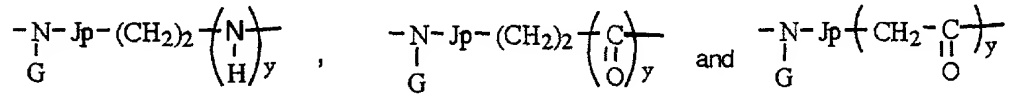
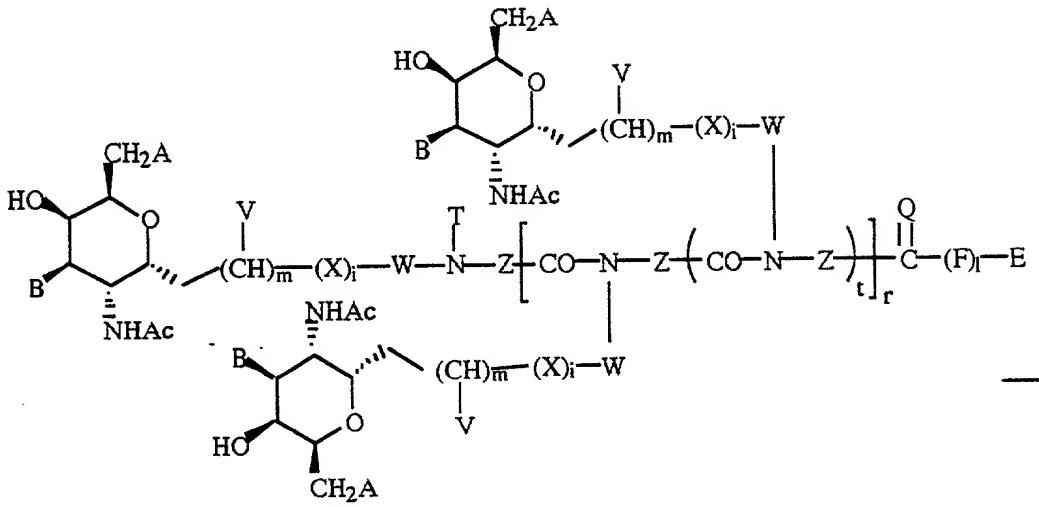


and

wherein J is -CH2CH2X- or -N(L)-CH2CO- (where X have above-mentioned meanings; L is H or lower alkyl); G is H or lower alkyl; p is 0 to 3; y is 0 or 1;

non-mucin type synthetic compounds or it's carrier conjugated compounds, which have above compounds as a core structure of antigen.

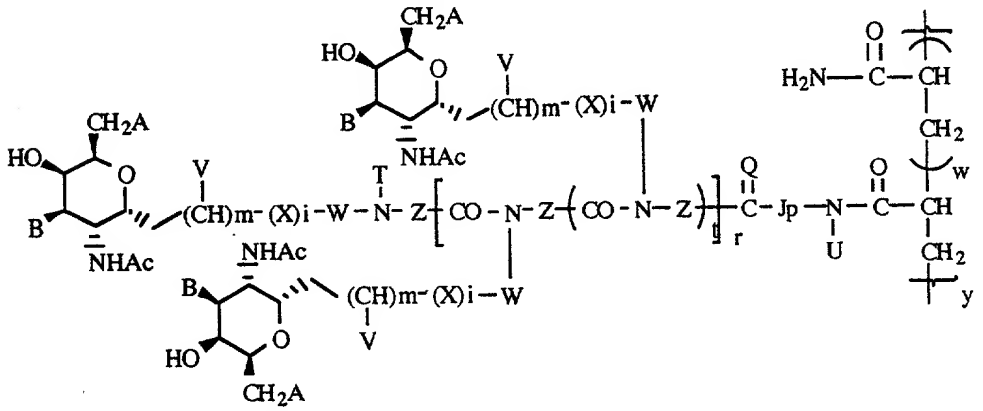
3. A compound of the general formula (3),



(3)

wherein A, B, T, X, Q, V, W, Z, i, m, t, E, , and l have above-mentioned meanings; r is from 1 to 4; non-mucin type synthetic compounds or it's carrier conjugated compounds, which have above compounds as a core structure of antigen.

4. A compound of the general formula (4),



(4)

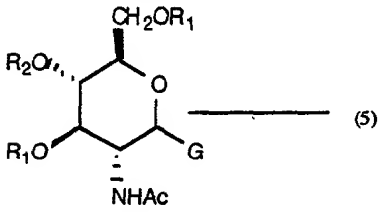
wherein A, B, T, X, Q, V, W, Z, J, i, m, t, p, and r, have above-mentioned meanings; U represents H or lower alkyl; w is 0 to 50; y is 1 or 50.

5. Non-mucin type synthetic compounds or it's carrier conjugated compounds of the general formula (1)-(4) wherein A is sialic acid and/or it's derivatives, B is OH.

6. Non-mucin type synthetic compounds or it's carrier conjugated compounds of the general formula (1)-(4) wherein A is OH, B is galactose and/or it's derivatives.

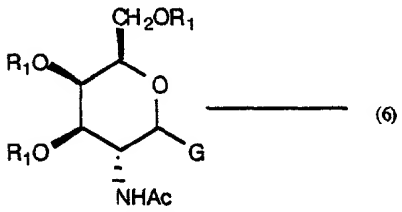
7. Non-mucin type synthetic compounds or it's carrier conjugated compounds of the general formula (1)-(4) wherein both A and B are OH.

8. A process for the preparation of a galactopyranose, which propaty of inversion of OR2 to OR1 in above mentioned glucopyranose derivatives to obtain a compound of the general formula (6)



(5)

wherein OR1 is H or protecting group of a hydroxy group such as acetyl group; R2 is leaving group such as tosylate, trifluoromesylate or methanesulfonate; G is allyl or protected hydroxyl group.



(6)

9. Immunotherapy using non-mucin type synthetic compounds or it's carrier conjugated compounds which mentioned claim 1~7.

10. Monoclonal antibodies which were prepared using non-mucin type synthetic compounds or it's carrier conjugated compounds showed in claim 1~7.

11. Antitumor agents which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

12. Immunostimulant for tumor, which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 active ingredients.

13. Anti human immunodeficiency virus (HIV) agents which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

14. Immunostimulant for HIV, which contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

15.Therapeutic method for tumor using that contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.

16.Therapeutic method for HIV using that contain non-mucin type synthetic compounds or it's carrier conjugated compounds showed claim 1~7 as active ingredients.